

# STATE OF GEORGIA TMDL IMPLEMENTATION PLAN WATERSHED APPROACH Suwannee River Basin

Local Watershed Governments

Colquitt County  
Tift County  
City of Omega  
City of Ty Ty

TMDL Implementation Plans are platforms for establishing a course of actions to restore the quality of impaired water bodies in a watershed. They are intended as a continuing process that may be revised as new conditions and information warrant. Procedures will be developed to track and evaluate the implementation of the management practices and activities identified in the plans. Once restored, appropriate management practices and activities will be continued to maintain the water bodies. **With input from appropriate stakeholder groups, a TMDL Implementation Plan has been developed for a cluster of impaired streams and the corresponding pollutants.** The impaired streams are located in the same sub-basin identified by a HUC10 code (Figure 1).

This Implementation Plan addresses an action plan, education/outreach activities, stakeholders, pollutant sources, and potential funding sources affecting the sub-basin. In addition, the Plan describes (a) regulatory and voluntary practices/control actions (*management measures*) to reduce target pollutants, (b) milestone schedules to show the development of the management measures (*measurable milestones*), (c) a monitoring plan to determine the efficiency of the management measures and measurable milestones, and (d) criteria to determine whether substantial progress is being made towards reducing pollutants in impaired waterbodies. The overall goal of the Plan is to define a set of actions that will help achieve water quality standards in the state of Georgia. Following this section is information regarding individual segments

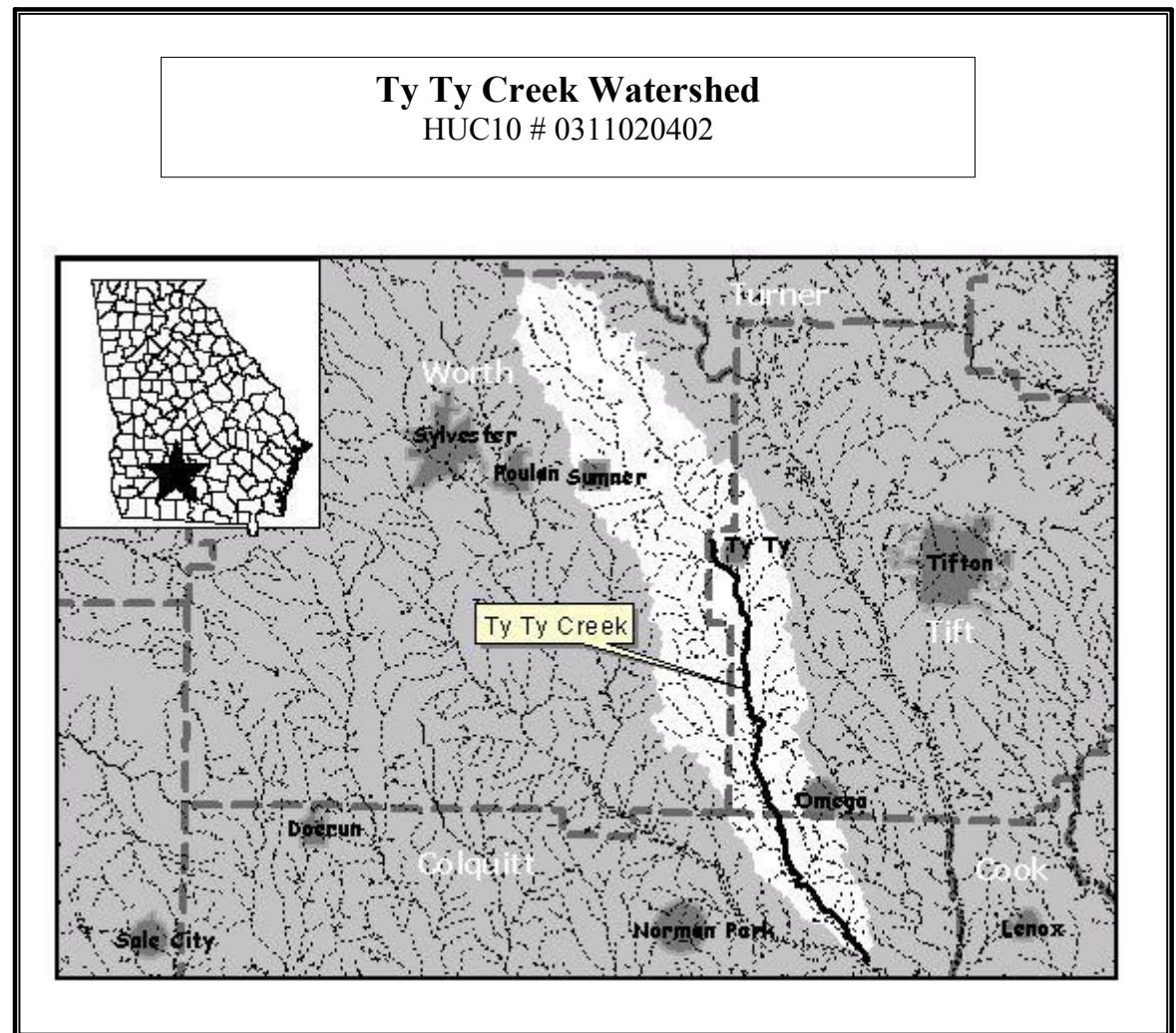


FIGURE 1

Impaired Waterbody*	Impaired Stream Location	Impairment
1. Ty Ty Creek	Tucker Creek to Warrior Creek near Omega	Low Dissolved Oxygen

\*These Waterbody Numbers are referenced throughout the Implementation Plan.

# Action Plan for Ty Ty Creek

Watershed Ty Ty Creek  
HUC 10 0311020402

PARAMETER:	SOURCE:	EFFECT:	WHAT CAN I DO?	
			At Home: Community, School	At Work: Business, Government
<input checked="" type="checkbox"/> Dissolved Oxygen (DO)	<input type="checkbox"/> Industrial	<input checked="" type="checkbox"/> Habitat	Area adjacent to Sherod Rd. to be refurbished and used in recreation. Bridge over on CR-128 cleaned for fishing zone. Drinking water hazards to be removed from creek by volunteers. Area from Sumner to TyTy between R.R. and creek to be set-aside as tour forest areas.  1. Reduce and control use of irrigation, fertilizers, and pesticides at home. 2. Develop community-recycling system. 3. Control oil/grease leakage from vehicles/equipment. 4. Halt clandestine dumping. 5. Take care of all wastes in responsible manner.	<u>Work:</u> Establish "Adopt a creek" units to break up TyTy from Sumner to Warrior Creek into manageable reaches.
<input type="checkbox"/> Fecal Coliform (FC)	<input checked="" type="checkbox"/> Urban	<input checked="" type="checkbox"/> Recreation		<u>Government:</u> Worth County to develop plan to half septic tank drainage. TyTy to control urban runoff. Colquitt County to attempt to stop major septic seepage south of Omega.  1. Seriously consider total recycling. 2. Reduce water use. 3. Sponsor Adopt-a-stream and/or other environmental programs. 4. Use BMPs on farms, in forests, on ranches. 5. Obey rules on building in wetlands, halting erosion, preventing spills.
<input type="checkbox"/> Sediment	<input checked="" type="checkbox"/> Agriculture	<input checked="" type="checkbox"/> Drinking Water		
<input type="checkbox"/> Metals	<input type="checkbox"/> Forestry	<input checked="" type="checkbox"/> Aesthetics		
<input type="checkbox"/> Fish Consumption Guidelines (FCG)	<input checked="" type="checkbox"/> Residential	<input checked="" type="checkbox"/> Other (Please List)		
<input type="checkbox"/> Other (Please List)	<input type="checkbox"/> Other (Please List)	Fishing		

## INFORMATION/EDUCATION/OUTREACH ACTIVITIES

An education/outreach component will be used to enhance public understanding of and participation in implementing the TMDL Implementation Plan. List of all previous and planned information/education/outreach activities.

Responsible Organization Or Entity	Description	Impacted Waterbodies*	Target Audience	Anticipated Dates (MM/YY)
GA-EPD	Pamphlet – Watershed Wisdom	Total Watershed	H.S. and above	Nov 2002
US Fish and Wildlife	Develop rapport with this federal agency: Creek Monitoring	All of Ty Ty Creek	Fishermen	2003
Nat'l. Environmentally sound Production Agriculture Lab NESPAL	Consider grant application	All of Ty Ty Creek	Farmers/Ranchers	2003
Upper Suwannee Watershed Initiative	Non Point source education/outreach	All of Ty Ty Creek	Clubs and Citizens	2003
South Georgia RDC	SGRDC offers Technical assistance	All of Ty Ty Creek	Local Government Leaders	2003
Norman Baptist Assembly	Convention Center: Educational Outreach	All of Ty Ty Creek	TyTy area residents	2003
Seven Rivers/Statewide Engineering	Presentations, (Berlin Community Center, Ellenton City Hall)	Ty Ty Creek	Mobile Home Pk Operators	2002
Moultrie Observer, Tifton Gazette	Articles outlining basic content of meetings and schedule of meetings run.	Ty Ty Creek	General Public	Oct-Nov 2002



## STAKEHOLDERS

EPD encourages public involvement and the active participation of stakeholders in the process of improving water quality. Stakeholders can provide valuable information and data regarding their community and the impaired water bodies and can provide insight and/or implement management measures.

List of local governments, agricultural organizations or significant landholders, commercial forestry organizations, businesses and industries, and local organizations including environmental groups and individuals with a major interest in this watershed.

Name/Organization	Address	City	State	Zip	Phone	E-Mail
Colquitt Co. Board of Commissioners	1220 S. Main St.	Moultrie	GA.	31776	229-616-7400	
Tift Co. Board of Commissioners	225 Tift Ave. Rm 204	Tifton	GA.	31793	229-386-7850	
City of Omega	P.O. Box 6	Omega	GA.	31775	229-528-4400	
City of Ty Ty	P.O. Box 99	Ty Ty	GA.	31795	229-382-9476	
John Burgess, Ty Ty Maintenance Super	141 E. Elm St P.O. box 99	Ty Ty	GA.	31795	229-382-9476	
Coastal Marketing Service	1010 TyTy Omega Rd.	Tifton	GA.	31793	229-388-0410	
Steve Whittington City of Omega	P.O. Box 6	Omega	GA.	31775		
Mr. Donaalley, Colquitt Co. Health Dept.	Box 639	Moultrie	GA.	31776	229-891-7100	
Mr. Ken Holyoak, Ken's Fish Farm	US Hwy 129-N	Alapaha	GA.	31622	229-532-6135	<a href="mailto:kensfish@surfsouth.com">kensfish@surfsouth.com</a>
Pat Atwater	211 Atwater Rd.	Tifton	GA.	31794	229-382-4411	
Anna B. Ross	21 Ross Road	Tifton	GA.	31793	229-386-2673	
Jimmy C. Cook	5 Cook-Wilson Road	TyTy	GA.	31795	229-382-7321	
Arlie Ray Castleberry	24 Dorsey Road	TyTy	GA.	31795	229-386-0464	
Robert Sledge	572 Sledge Road	TyTy	GA.	31795	229-776-9223	
Jenny Granberry	3724 Lakewood Ave.	Tifton	GA.	31794	229-387-8471	
Janice Jackson, City Clerk		Norman Park	GA.	31771	229-769-3611	
Glenn Chafin	358 CM Chafin Rd.	Norman Park	GA.	31771	229-769-3249	
Gromor Organics, Inc.	P.O. Box 822	Tifton	GA.	31793		(Farm in Norman Park)
W.A. Vickers	2329 Ellenton-Norman Park Rd.	Norman Park	GA.	31771	229-769-3269	
Southern Valley Fruit & Vegetable Inc.	2775 Ellenton-Norman Park Rd.	Norman Park	GA.	31771	229-769-3675	
Baker Farm	3667 Ellenton-Norman Park Rd.	Norman Park	GA.	31771	229-769-3113	
Taylor Lewis Farms	195 Ty Ty Omega Rd.	Tifton	GA.	31794	229-382-4454	
Omega Farm Supply, Inc.	P.O. Box 97	Omega	GA.	31775	229-528-4227	
Omega Gin Company	4905 Hwy 319 – S	Tifton	GA.	31794	229-528-6696	
Omega Peanut Company	119 Omega-Ellenton Rd.	Omega	GA.	31775	229-528-4291	
Omega Pecan Company	5522 Alabama Ave.	Omega	GA.	31775	229-528-6405	
Chuck Jinright	1782 Elton Clark Rd.	Omega	GA.	31775	229-528-4026	
Colquitt County Farm Bureau	899 Sylvester Hwy	Moultrie	GA.	31768	229-985-1435	
Wells Aluminum – Moultrie, Inc.	Industrial Parkway	Moultrie	GA.	31768	229-985-9889	
Hart's Produce Inc.	Spencefield	Moultrie	GA.	31768	229-985-6602	
L&M Produce, Inc.	1418 Gene-McQueen Rd.	Moultrie	GA.	31768	229-890-7439	
Mobley Plant Co.	N. Hwy. 133 N.	Moultrie	GA.	31768	229-985-5544	

## WATER BODIES/STREAMS COVERED IN THIS PLAN:



These impaired streams are located in the same sub-basin identified by a HUC10 code. Most of the information contained in this section comes from the 303(d) list and has been completed by employees of the EPD Water Protection Branch. Data that placed stream on 303(d) list will be provided upon request.

Waterbody Name #1	Location	Miles/Area Impacted	Use Classification	Partially Supporting/ Not Supporting (PS/NS)
Ty Ty Creek	Tucker Cr. To Warrior Cr. near Omega	9	Fishing	
Primary County	Secondary County	Second RDC	Source (Point/ Nonpoint)	
Colquitt	Tift		Nonpoint	

Parameters	Water Quality Standards	Required Reduction	TMDL ID	Date TMDL Established
Dissolved Oxygen	5mg/l (daily average) 4 mg/l (minimum). Natural DO lower than state standard. Calculated target DO = 2.57 mg/l.	37% TOC (lb/yr) 38% TN (lb/yr) 38% TP (lb/yr)		12/2001

**Ty Ty Creek headwaters in three small farm ponds and a small wetland situated NNE of Shingler, Georgia. These headwaters are impacted by farming operations and by roadwash pollutants from SR 112 and mobile homes located close to the creek. Farmlands encroach upon the creek from the NE between Shingler and Sumner. Urban runoff from Sumner assures that Ty Ty Creek has little oxygen and considerable oxygen-demanding compounds as it enters a wooded “refuge” between Sumner and Ty Ty. Note the potential source of pollution just NW of Ty Ty (photos). The zone of particular concern is situated far south of Ty Ty where Tucker Creek joins Ty Ty Creek. Investigations of the headwaters reinforces citizen concern for the pollution contribution of the City of Ty Ty and farming operations near Scooterville and Excelsior as well as possible contaminant flow from Omega.**

## POLLUTANT SOURCES



It is important to recognize the potential source(s) causing water quality impairment. Each source must be controlled to comply with target TMDL/Load Allocations for each pollutant. Included is a description of how the sources contribute to the impairment and the waterbody that is impaired.

List of major nonpoint source categories and sub-categories or individual sources (Urban Runoff, Agriculture, Forestry, Municipal Sewage Treatment Plant)

Pollutant	Sources of Pollutants	Description of Contribution To Impairment	Impacted Waterbodies*
Organic Materials	Runoff from developments, industrial sites, urban streets and residences	Culverts, manholes, swales, sloughs, clogged with vegetation, debris, rubbish and garbage.	TyTy Creek
Septic Seepage	Undetected and/or clandestine effluent pipes to sloughs	Fecal matter, solvents, soap, detergents and garbage residues which are partially or not at all reduced in septic tanks and drainfields	Lowlands, sloughs and dry quicks which empty to TyTy Creek
Trash	Bagged (broken) garbage and rubbish	Bridges and/or sloughs which are along roads are often sites for clandestine dumping of domestic and demolitions wastes.	Usually areas not in wetlands, but at edges of woods, drainage to TyTy Creek
Manure	Direct animal defecation as well as improper land distribution of solids	Manures improperly spread on farmlands, and or liquid manures used excessively or improperly on crops	Overland flow to TyTy Creek tributaries and draws, Substance Subsurface Seepage to TyTy Creek
Animal Carcasses	Dead hogs, deer and cows	Deer harvested with offal thrown into creek, Escaped farm animals found drowned in mud	TyTy Creek
Fertilizers	Runoff/Seepage. Farms and residences	Nitrate, ammonium ion, complex phosphates deplete oxygen	TyTy Creek



## MANAGEMENT MEASURES, MEASURABLE MILESTONES AND SCHEDULE

(i.e. Local codes and ordinances, Erosion and Sedimentation Control, Storm Water Management, Local water resource monitoring)

The following table lists management measures that have been or will be implemented to achieve water quality standards and the load reductions established in the TMDL. The management measures, including regulatory or voluntary actions or other controls by governments or individuals, specifically apply to the pollutant and the waterbody for which the TMDL was written. A description is provided of how these management measures are/will be accomplished through reliable and effective delivery mechanisms, and how these management measures are/will help achieve the target TMDL. Included is the source of the pollutant, anticipated/past effectiveness of the management measure (very effective, somewhat effective, not effective), the current status (i.e. enforced, in-progress, planning), and measurable milestones and schedule. Milestones are used to measure progress in attaining water quality standards and to determine whether management measures are being implemented.

Regulation/Ordinance or Management Measure		Responsible Government, Organization or Entity		Description	Enacted/Projected Date	Status	Regulatory/Voluntary
Clean Water Act: Sec. 404CFT pt. 232.3		GA DNR/EPD USCOE		Law requires that construction activities do not adversely impact US waters. This includes running as well as intermittent streams.	1988	Current	Regulatory

Pollutant(s) Affected	Sources of Pollutant(s)	Impacted Waterbodies*	Anticipated or Past Effectiveness
D.O.	Urban/rural runoff illegal dumping of construction/industrial wastes.	Ty Ty	Effective

Measurable Milestones	Schedule		Comments
	Start	End	
1. Control runoff to creek by holding in natural or mandated Wetlands.	2003-	Continuous	Wetlands act as “sponges” to collect both natural organic matter, bio-chemicals, recalcitrant Complex organic pollutants and silt. The soil flora/fauna will decompose and mollify most Pollutants. Wetlands must not be trash centers nor silt-sediment basins. They must be Protected and expanded.
2. Keep wetlands clean by strict solid waste regulations			

Regulation/Ordinance or Management Measure	Responsible Government, Organization or Entity	Description	Enacted/ Projected Date	Status	Regulatory/ Voluntary
Georgia Water Quality Control Act (OCGA 12-5-20)	Georgia DNR, EPD	Makes it unlawful to discharge excessive pollutants into waters of the state in amounts harmful to public health, safety or welfare, animals, or the physical destruction of stream habitat.	1964	Current	Regulatory

Pollutant(s) Affected	Sources of Pollutant(s)	Impacted Waterbodies*	Anticipated or Past Effectiveness
D.O.	Septage	Ty Ty Creek and Tributaries	Poor Past: Improving

Measurable Milestones	Schedule		Comments
	Start	End	
1. Determine number & location of unacceptable Septic tank systems	2002	2010	Septic tank problems begin with poor siting of home. If too low or if soils too poor, dwelling must be moved. If site is fair dwelling may be elevated to repair/reconstruct and improved System. In some developments "pressure systems" could be used. Many mobile homes and sub standard homes have been built or sited without permits or Incorrectly permitted by default. Many permitted systems simply are not functioning Properly.
2. Categorize depending upon your ability to afford Correction/improvement.			
3. Halt permitting of systems in potential flood zones			
4. All systems discovered and classified.			
5. Gradual correction from worst to least case			

Regulation/Ordinance or Management Measure	Responsible Government, Organization or Entity	Description	Enacted/ Projected Date	Status	Regulatory/ Voluntary
Agriculture BMPs	GA Soil and Water Conservation Service/ GA Dept of Agriculture	BMPs for crops not used as Developed by GADA	Current	Slow Improvement	Regulatory

Pollutant(s) Affected	Sources of Pollutant(s)	Impacted Waterbodies*	Anticipated or Past Effectiveness
D.O.	Fertilizer, Silt, Pesticides	Creek and tributaries	Poor Past: Improving

Measurable Milestones	Schedule		Comments
	Start	End	
1. Locate all farms not using no till, strip farming or Adequate buffer zones.	2002	2010	South Georgia farms suffer from gradual loss of macro- and micro- nutrients because of 300 Years of cropping without sufficient return of both nutrients and organic matter to the Soil. Composting of city wastes, farm animal wastes and farm grown stubble would Gradually Improve soil and provide a natural "sponge" to hold fertilizer and pesticides in The field. Use of no till and strict enforcement of buffer strips near creeks and wetlands Would stop Pollution.
2. Bring all farms into compliance.			

Watershed	Ty Ty Creek
HUC 10	0311020402

Regulation/Ordinance or Management Measure	Responsible Government, Organization or Entity	Description	Enacted/ Projected Date	Status	Regulatory/ Voluntary
Land Use Management Regulations Building Codes Subdivision Ordinances	Local Government, GA DNR, Dept. of Human Resources, Department of Community Affairs, Forestry Commission	Utilize state-mandated environmental planning criteria, local planning and zoning ordinances, BMPs for agricultural and forestry, and septic tank permitting to manage runoff and development, RDC will provide technical assistance in developing a model “zoning-light” ordinance to encourage local governments to implement planning and zoning measures.	Adopted on a County by County basis	Planned	Regulatory

Pollutant(s) Affected	Sources of Pollutant(s)	Impacted Waterbodies*	Anticipated or Past Effectiveness
D.O.	Urban runoff: Septic Failures	Ty Ty Creek	Weak enforcement, loopholes

Measurable Milestones	Schedule		Comments
	Start	End	
1. Enforce BMPS during construction 2. Enforce local clean streets ordinances 3. Relocate homes/business found to be out of compliance	2003	Continuous	Pollution problems begin with initial site plans. Authorities must be assured that water, Power, sewage systems are correctly designed and installed on sites or in developments that Are correctly sited. Those found needy must be relocated.



## POTENTIAL FUNDING SOURCES



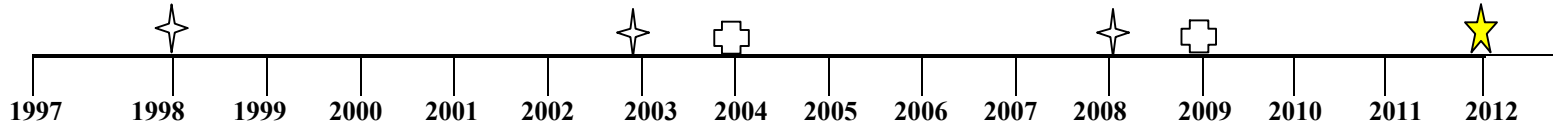
The identification and discussion of dedicated funding is important in determining the economic feasibility of the above-mentioned management measures.

Funding Source	Responsible Authority	Status	Anticipated Funding Amount	Impacted Waterbodies*
Environmental Quality Incentive Program (EQIP)	NRCS	Must Apply	\$10,000	Ty Ty Creek and Tributaries
Wildlife Habitat Incentive Program	NRCS	Must Apply	\$10,000	Ty Ty Creek and Tributaries
Urban Resources Partnership (URP)	Foresst Service, NRCS, Nat'l Parks, EPA HUD	Must Apply	+/- \$200,000	Ty Ty Creek and Tributaries
Toxics grant (cleanup clandestines)	Jessie Smith Noyes Foundation	Must Apply	\$5,000	Ty Ty Creek and Tributaries
Sustainable Agriculture Grant	Jessie Smith Noyes Foundation	Must Apply	\$5,000	Ty Ty Creek and Tributaries
Sustainable Communities Grant	Jessie Smith Noyes Foundation	Must Apply	\$5,000	Ty Ty Creek and Tributaries
319 (h) Grant	EPD/State of Georgia	Must Apply	Unknown	Ty Ty Creek and Tributaries
Greenspace Fund	GA – DNR	Must Apply	Unknown	Ty Ty Creek and Tributaries
DCA Educational Outreach	DCA	Must Apply	\$5,000	Ty Ty Creek and Tributaries
Conservation Reserve Program	USDA	Must Apply	Unknown	Okapilco
Urban Resources Partnership (URP)	Forest Service, the Natural Resources Conservation Service, the National Park Service, the Environmental Protection Agency, and the Department of Housing and Urban Development	Must Apply	Unknown	Okapilco
Progressive Fund	The Fund for Southern Communities	Must Apply	Unknown	Okapilco
Brownfields Assessment Demonstration Pilots	EPA Office of Solid Waste and Emergency Response	Must Apply	Unknown	Okapilco
Pollution Prevention Grants	EPA office of Pollution Prevention and Toxics	Must Apply	Unknown	Okapilco
Southwest Georgia Bank	Commercial Ag-Loans	Low interest loans	\$300,000	Okapilco
Fleetwood Homes	Repair/Renovate Mobile Homes	Low interest loans	\$10,000/unit	Okapilco
Florida Rock Industries	1215 Wyandotte Dr., Albany, GA. 31716		+/- \$1,000	Upper Suwannee
Joiner Construction Company	Contract Division	Mobile Home Reconstruction	+/- \$1,000	Upper Suwannee

## PROJECTED ATTAINMENT DATE



The projected date to attain and maintain water quality standards in this watershed is 10 years from acceptance of the TMDL Implementation Plan by EPD.



EPD Monitoring

Evaluate TMDL & Attainment Date

Project Attainment



## MONITORING PLAN

The purpose of this monitoring plan is to determine the effectiveness of the target TMDL and the management measures being implemented to meet water quality standards. List of previous, current or planned/proposed sampling activities or other surveys. (Monitoring data that placed stream on 303(d) list will be provided if requested.)

Name Of Regulation / Ordinance Or Management Measure	Organization	Impacted Waterbodies*	Pollutants	Purpose/Description	Time Frame		Status (Previous, Current, Proposed)
					Start	End	
Fire Management	Local Government	Ty Ty	Organics	Remove Mosquito hazard and Source of complex organics.	2003	Cont.	Proposed
Water Quality Monitoring	Local County & State USGA, EPA	Ty Ty	Nitrate, D.O. Phosphates Fecal Coliforms Turbidity, PH	Water Quality will require Concerted effort and Overview by many auditors	2003	Cont.	Proposed
Agricultural Practices	NESPAL, USDA-ARS	Ty Ty	As above	Use of BMPs: change in farm Practices will require Federal Funding	2003	Cont.	Proposed

## CRITERIA TO DETERMINE WHETHER SUBSTANTIAL PROGRESS IS BEING MADE



The following set of criteria will be used to determine whether any substantial progress is being made towards reducing pollutants in impaired waterbodies and attaining water quality standards. Discussion on each criteria is recorded in the space provided. Additional relevant criteria are presented in comments.

Percent of concentration or load change (monitoring program) Although D.O. is the parameter of major concern, an effective program of testing must be

Developed, including all related pollutant measurements. Past practice by EPD to intermittently monitor D.O. has not been accepted by local citizens.

*If monitoring results show that it is unlikely that the TMDL will be adequate to meet water quality standards, revision of the TMDL may be necessary.*

- Categorical change in classification of the stream (delisting the stream is the goal)

This stream is definitely still polluted. If actions taken in this

Report are undertaken then Ty Ty creek could be taken off the list by 2010.

- Regulatory controls or activities installed (ordinances, laws)

Ordinances are generally adequate, but enforcement, education and funding to make

Improvements have not followed rapid development and increasing industrial activity.

- Best management practices installed (agricultural, forestry, urban)

BMPs are well known and economically feasible BMPs are not used by those who

Cannot withstand change. Continued and accelerated educational efforts are needed to gradually persuade foresters, farms and ranches to consider

Environmentally sound practices.

## COMMENTS

Ty Ty Creek can be cleaned up. If BMPs are used and ordinances/laws enforced there can be oxygen-rich, fresh, clear, healthy water in this creek. Local citizens  
And groups such as Boy Scouts, Sierra club, Save Our Streams, Fish & Game Clubs must clean up selected/assigned segments of the Ty Ty and its tributaries,  
Sloughs, and wetlands and then monitor those segments for incursions. Funding will be needed to improve mobile home parks and blighted neighborhoods. Tax  
Incentives and commodity guarantees can be used to bring reluctant farmers/ranchers/poultry men into BMP compliance.

Prepared By: Ray Walke: Statewide Engineering, Inc.  
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Address: 239 Northeast Park Ave., Suite E  
City: Baxley ST: GA ZIP: 31513  
E-mail: \_\_\_\_\_  
Date Submitted to EPD: Friday, December 13, 2002

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**Environmental Protection Division of the Department of Natural Resources,  
State of Georgia.**

**TOGETHER WE CAN MAKE A DIFFERENCE!**



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**Department Use Only:**

Implementation Plan	Impaired Waterbodies			
	1	2	3	4
Action Plan				
Education/Outreach Activities				
Stakeholders				
Pollutant Sources Identified				
Description of Management Measures				
Measurable Milestones and Schedule				
Potential Funding Sources				
Monitoring Plan				
Criteria To Determine Whether Substantial Progress Is Being Made				
Supporting Documents				